



LCD MONITOR

quick start guide

2243QW/2243QWX

Introduction

Package Contents



Note

Please make sure the following items are included with your monitor.

If any items are missing, contact your dealer.

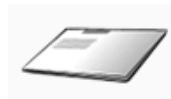
Contact a local dealer to buy optional items.

Unpacking



Monitor & HAS stand

Manuals



Quick Setup Guide



Warranty Card



User's Guide

(Not available in all locations)

Cables



D-Sub Cable



Power Cord



DVI Cable (option)



USB Cable

Others



Cleaning Cloth(Option)

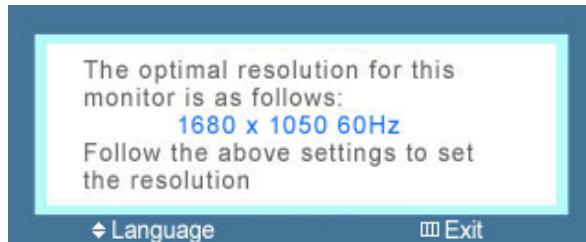


Note

Cleaning Cloth is only provided for highly polished black products as a product feature.

Your Monitor

Initial Settings



Select the language using the up or down key.

The displayed content will disappear after 40 seconds.

Turn the Power button off and on. It will be displayed again.

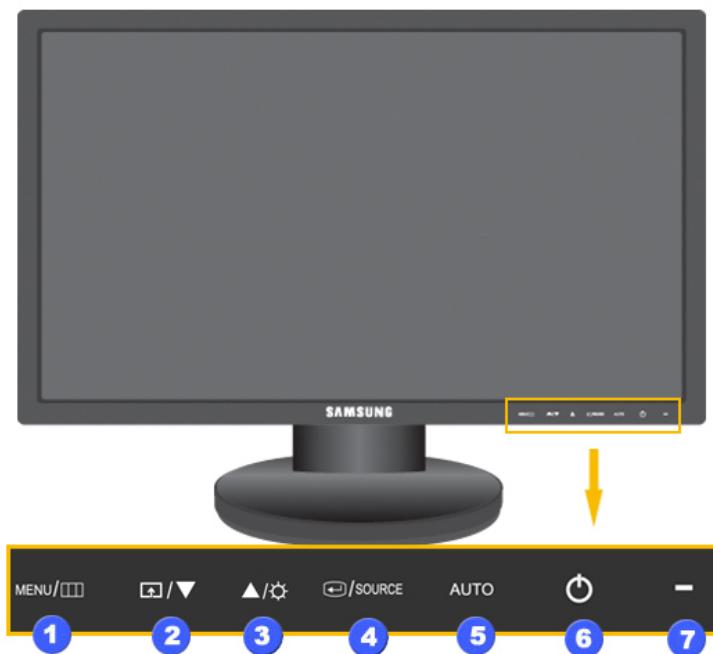
It can be displayed up to three (3) times. Make sure to adjust the resolution of your PC before reaching the maximum count.



The resolution displayed on the screen is the optimal resolution for this product.

Adjust your PC resolution so that it is the same as the optimal resolution for this product.

Front



1 MENU button [MENU/☰]

Opens the on-screen menu and exits from the menu. Also use to exit the OSD menu or return to the previous menu.

2 *Customized Key* []

You can customize key assignment for the Custom button according to your preferences.

 **Note**

You can configure the customized key for a required function via **Setup > Customized Key**.

3 *Brightness button* []

When OSD is not on the screen, push the button to adjust brightness.

>> Click here to see an animation clip

2,3 *Adjust buttons* [▼/▲]

These buttons allow you to adjust items in the menu.

4 *Enter button* [] / *SOURCE button*

Activates a highlighted menu item.

Push the ' / SOURCE', then selects the video signal while the OSD is off. (When the ' / SOURCE' button is pressed to change the input mode, a message appears in the upper left of the screen displaying the current mode -- analog or digital input signal.)

 **Note**

If you select the digital mode, you must connect your monitor to the graphic card's DVI port using the DVI cable.

>> Click here to see an animation clip

5 *AUTO button*

Use this button for auto adjustment.

>> Click here to see an animation clip

6 *Power button* []

Use this button for turning the product on and off.

7 *Power Indicator*

This light is lit when operating normally, and blinks once when your adjustments are saved.

 **Note**

See PowerSaver described in the manual for further information regarding power saving functions. For energy conservation, turn your monitor OFF when it is not needed or when leaving it unattended for long periods.

Rear

 **Note**

The configuration at the back of the product may vary from product to product.



1 *POWER port*

Connect the power cord for your monitor to the POWER port on the back of the product.

2 *DOWN(USB downstream port)*

Connect the  DOWN port of the USB monitor and a USB device with the USB cable.

UP(USB upstream port)

Connect the  UP port of the monitor and the USB port of the computer with the USB cable.

3 *DVI IN port*

Connect the DVI Cable to the DVI IN port on the back of your monitor.

4 *RGB IN port*

Connect the D-sub cable to the 15-pin, RGB IN port on the back of your monitor.

5 *Kensington Lock*

The Kensington lock is a device used to physically fix the system when using it in a public place. (The locking device has to be purchased separately.) For using a locking device, contact where you purchase it.



The location of the Kensington Lock may be different depending on its model.

Using the Anti-Theft Kensington Lock

1. Insert the locking device into the Kensington slot on the Monitor **B** and turn it in the locking direction **A**.
2. Connect the Kensington Lock cable.
3. Fix the Kensington Lock to a desk or a heavy stationary object.



See Connecting Cables for further information regarding cable connections.

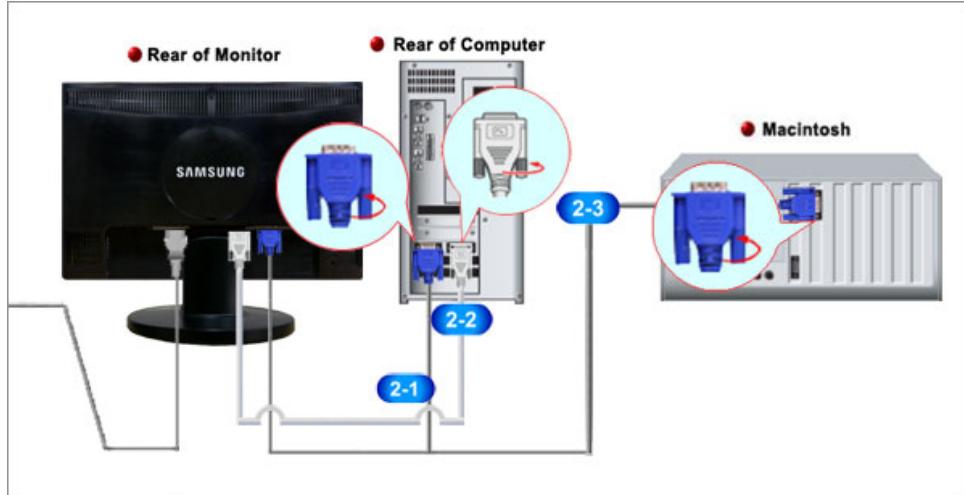


Cable holding ring

- Fix the cables using the holding ring, as shown in the figure.

Connections

Connecting Cables



- 1 Connect the power cord for your monitor to the power port on the back of the monitor.

Plug the power cord for the monitor into a nearby outlet.

- 2 Use a connection appropriate for your computer.

- 2-1 Using the D-sub (Analog) connector on the video card.

- Connect the signal cable to the 15-pin, D-sub port on the back of your monitor.



- 2-2 Using the DVI (Digital) connector on the video card.

- Connect the DVI Cable to the DVI IN Port on the back of your Monitor.



- 2-3 Connected to a Macintosh.

- Connect the monitor to the Macintosh computer using the D-sub connection cable.



Note

If the monitor and the computer are connected, you can turn them on and use them.

Connecting USB

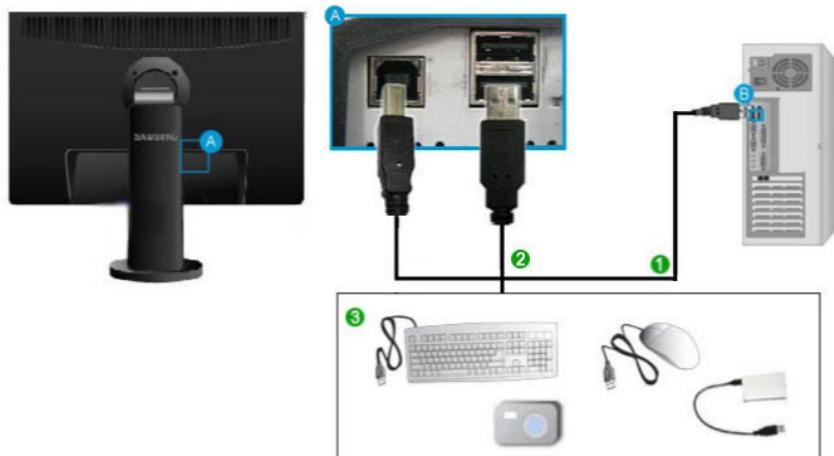


Note

You can use a USB device such as a mouse, keyboard, Memory Stick, or external hard disk drive by connecting them to the DOWN port of the monitor without connecting them to the PC.

The USB port of the monitor supports High-Speed Certified USB 2.0.

	High speed	Full speed	Low speed
Data Rate	480 Mbps	12 Mbps	1.5 Mbps
Power Consumption	2.5 W (Max., each port)	2.5 W (Max., each port)	2.5 W (Max., each port)

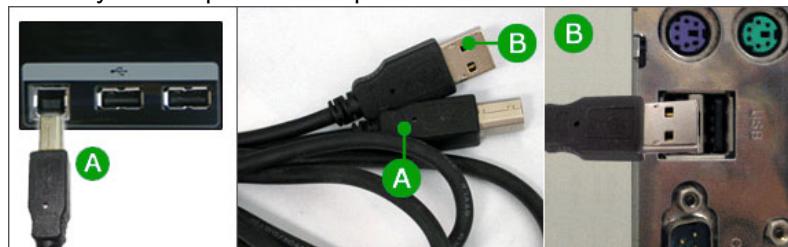


1. Connect the *UP* port of the monitor and the USB port of the computer with the USB cable.



To use *DOWN* port, you have to connect the *UP* (Upstream Cable) to the PC.

Make sure to use the USB cable supplied with this monitor to connect the monitor's *UP* port and your computer's USB port.



2. Connect the *DOWN* port of the USB monitor and a USB device with the USB cable.

3. The use procedures are as the same as those for using an external device connecting to the PC.

- You can connect and use a keyboard and mouse.
- You can play a file from a media device.

(Examples of media devices: MP3, digital camera, etc.)

- You can run, move, copy or delete the files on the storage device.

(Examples of storage devices: external memory, memory card, memory reader, HDD-type MP3 player, etc.)

- You can use other USB devices that can be connected to a computer.

 **Note**

When connecting a device to the  **DOWN** port of the monitor, connect the device using a cable appropriate to the device.

(For the purchase of the cable and external devices, ask the service center of the corresponding product.)

The company is not liable for problems or damages to an external device caused by using an unauthorized cable for the connection.

Some products do not follow the USB standard, and it may cause a malfunction of the device.

If the device malfunctions even if it is connected to the computer, contact the service center of the device/computer.

USB monitor

 **Note**

You can use this product as a monitor simply by connecting the power cable and the USB cable to your PC.

Minimum hardware requirements

1. When connecting one (1) or two (2) USB monitors

Minimum hardware requirements: 1.2 GHz CPU / 512 MB memoryDisplay: One monitor can support DVD quality resolution in full screen mode.(It may not support a sufficient frame speed during playback.)

2. When connecting three (3) USB monitors

Minimum hardware requirements: 1.8 GHz CPU / 1GB memoryDisplay: One monitor can support DVD quality resolution in full screen mode.(It may not support a sufficient frame speed during playback.)

3. Monitor connection: Multiple screens of 6 monitors

Minimum hardware requirements: 1.6 GHz Dual core CPU / 1 GB memoryDisplay: One monitor can support DVD quality resolution in full screen mode. (It may not support a sufficient frame speed during playback.)

When connecting serially

You can connect up to four (4) USB monitors serially.



When connecting in parallel

You can connect up to six (6) USB monitors in parallel. When connecting external devices to the USB monitor, you can only connect up to four (4) devices.



Installation

Installing Your USB Monitor



Note

Make sure to connect the USB cable and begin the installation after your PC has booted.

If you turn off your monitor or remove the USB cable while the installation is in progress, it may cause a problem with your PC and Windows OS.

The optimal resolution for this USB monitor is 1680 x 1050.

1. insert the provided USB Monitor Install CD into the CD-ROM drive of your PC. Double-click My Computer on the Windows Desktop and click on User Manual (I:). The volume name of the removable storage disk (for example, E:, F:, G:) may be different depending on your computer environment. Right-click it and select 'Open' from the displayed menu. Double-click the 'Setup' file and an installation progress window is displayed, as shown in the figure below.



2. Click "Next".

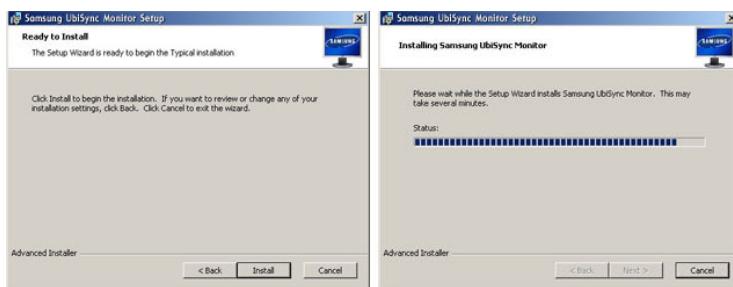


3. Select "I accept the terms in the License Agreement" and click "Next".

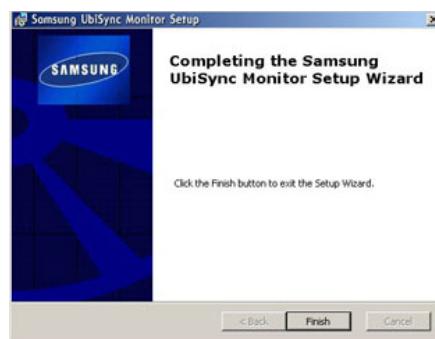
Connections



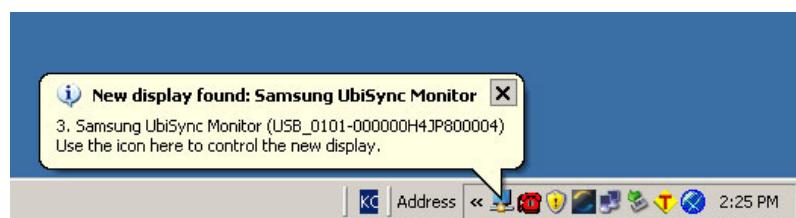
4. Click "Install".



5. Click "Finish" to complete the installation.



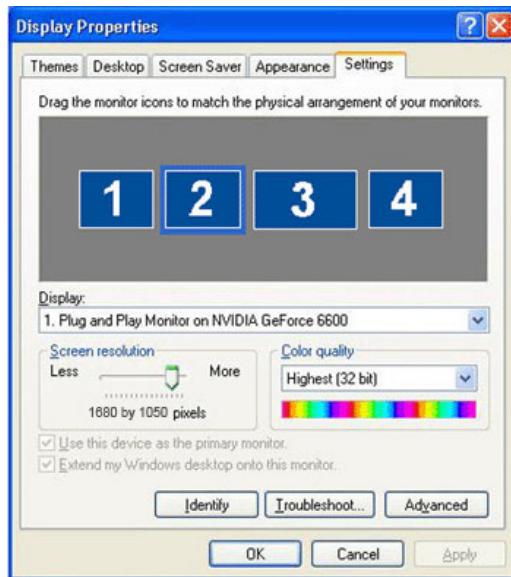
When setup is finished, a monitor icon is created in the system tray at the bottom of the monitor screen, and the information for the installed USB monitor is displayed.



6. When the installation is completed, configure the following settings to use multiple monitors.

Right-click on the 'Windows Desktop' and select 'Properties' from the displayed menu. The "Display Properties" window appears.

Select the "Settings" tab. A list of connected USB monitors is displayed.

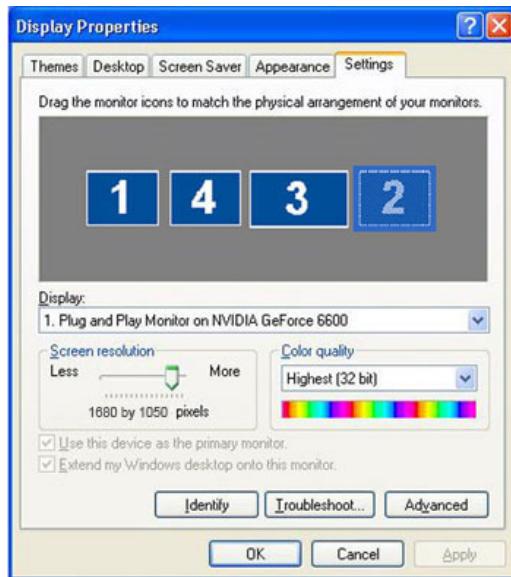


You can see the deactivated monitor No.2 (this may appear activated). Monitor No.2 is a virtual monitor which cannot actually be used. Therefore, first arrange the activated monitors in the order which they are actually used and move monitor No.2 to the last position.



Note

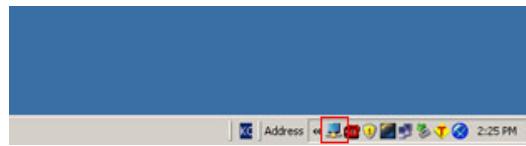
A virtual monitor may be not displayed in the 'Display Properties' window. Example) Three or four monitors may be displayed in the 'Display Properties' window when two or three monitors respectively are actually connected. In this case, the second one is a virtual monitor.



Then click "OK" button.

Configuring the USB Monitor Display Information

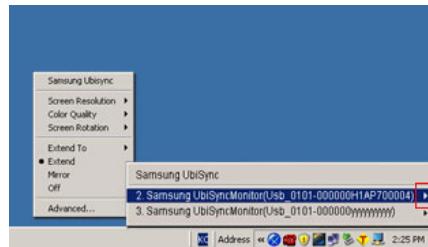
1. When the driver setup for the USB monitor is finished, a monitor icon is created in the system tray at the bottom of the monitor screen.



2. Click the monitor icon to display a list of connected USB monitors.

Example) The following figure shows when two USB monitors are connected.

Select the monitor for which you want to configure the display settings. You can configure the "Screen Resolution", "Color Quality" and "Screen Rotation" settings for your monitor.



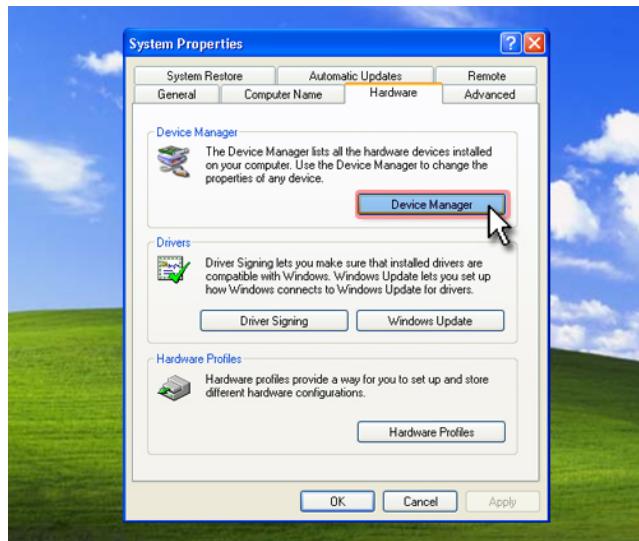
Checking the configuration

After the installation, you can check the configuration by following these steps.

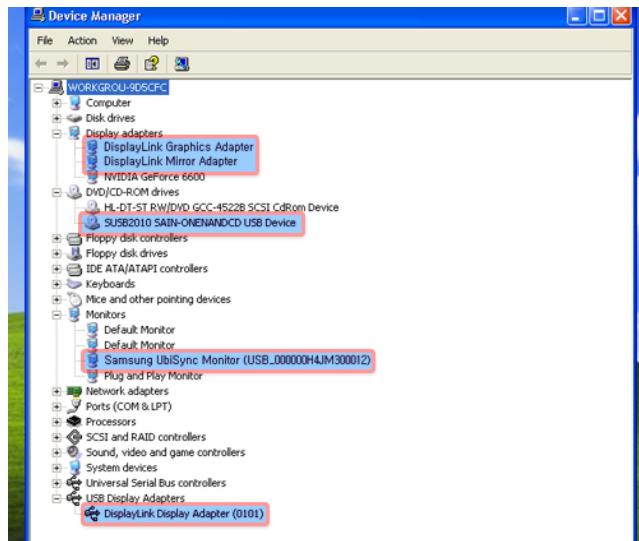
1. 'Right-click' 'My Computer', and select 'Properties' - 'System Properties'- the 'Hardware tab'.



2. Click 'Device Manager'.



3. A list of the installed device will be displayed, as shown in the figure below.



The Initial Screen Settings after Installing the Program

Applicable mode: Extend mode

Mode position: To the right of the primary screen

Mode rotation: 0°

USB Monitor - Limitation

- Supported OS (Operating Systems)

Windows XP

Service Pack 1 or earlier: Unsupported

Service Pack 2 or later: Supported

Windows 2000

Service Pack 3 or earlier: Not Supported

Service Pack 4 or later: Supported

Windows Server 2003: Not Supported

Windows Vista: Supported. (64bit Not Supported)

- To check the information on the operating system of your PC, right-click 'My Computer' on the 'Windows Desktop' and select 'Properties' from the displayed menu. Check the information in the 'General' tab of the 'Computer Properties' window.
 1. Because this USB monitor is recognized as a USB device, the DOS screen that appears for general monitors when a PC is booting up is not displayed.
 - If you want to use your USB monitor as the Primary Monitor, connect a D-Sub cable (for analog signals) or a DVI cable (for digital signals) as well.
 2. You cannot use the USB monitor for software using 3D hardware acceleration.
 - Real Player (Expansion mode is not supported.)
 - For most 3D games
 - Programs running on the base of Direct X
 3. Supported movie programs
 - Power DVD
 - Win DVD (Version 5 onwards)
 - Windows Media Player (Version 10 or later is supported.)
 - VLC
 4. This monitor does not support the MagicTune program.
 - The MagicRotation function may not function normally.
 - If the MagicTune program is installed on your PC, it may not be compatible with this monitor.
 5. The USB monitor may not work normally with USB 1.0.
 6. If you connect multiple USB monitors, a blank screen is displayed while your PC recognizes them. Screens are displayed on your USB monitors after your PC has recognized them.
 7. If the graphics card of your PC does not support WDDM, the extended mode may not be available in Windows Vista.

Example) Some versions of the Matrox Card

Using the Stand

Monitor Assembly



HAS Stand

Monitor and Bottom

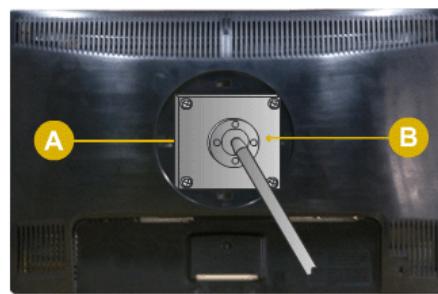
HAS Stand



A. Stand Stopper

Attaching a Base

This monitor accepts a 100 mm x 100 mm VESA-compliant mounting interface pad.



HAS Stand

A. Monitor

B. Mounting interface pad (Sold separately)

1. Turn off your monitor and unplug its power cord.
2. Lay the LCD monitor face-down on a flat surface with a cushion beneath it to protect the screen.
3. Remove two screws and then remove the stand from the LCD monitor.
4. Align the mounting interface pad with the holes in the rear cover mounting pad and secure it with four screws that came with the arm-type base, wall mount hanger or other base.



- Do not use screws longer than the standard dimension, as they may damage the inside of the Monitor.
- For wall mounts that do not comply with VESA standard screw specifications, the length of the screws may differ depending on their specifications.
- Do not use screws that do not comply with the VESA standard screw specifications.

Do not fasten the screws too tightly, as this may damage the product or cause the product to fall, leading to personal injury.

Samsung is not liable for these kinds of accidents.

- Samsung is not liable for product damage or personal injury when a non-VESA or non-specified wall mount is used or the consumer fails to follow the product installation instructions.



- To mount the monitor on a wall, you should purchase the wall mounting kit that allows you to mount the monitor at least 10 cm away from the wall surface.
- Contact the nearest Samsung Service Center for more information. Samsung Electronics will not be responsible for damages caused by using a base other than those specified.
- Please use Wall Mount according to the International standards.

Troubleshooting

Self-Test Feature Check



Note

Your monitor provides a self test feature that allows you to check whether your monitor is functioning properly.

Self-Test Feature Check

1. Turn off both your computer and the monitor.
2. Unplug the video cable from the back of the computer.
3. Turn on the monitor.

If the monitor is functioning properly, you will see a box in the illustration below.



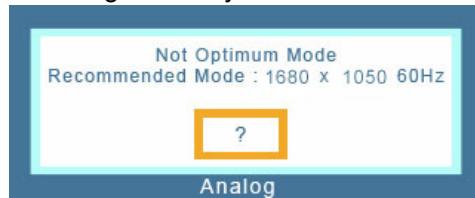
This box appears during normal operation if the video cable becomes disconnected or damaged.

4. Turn off your monitor and reconnect the video cable; then turn on both your computer and the monitor.

If your monitor screen remains blank after using the previous procedure, check your video controller and computer system; *your monitor is functioning properly*.

Warning Messages

If there is something wrong with the input signal, a message appears on the screen or the screen goes blank although the power indicator LED is still on. The message may indicate that the monitor is out of scan range or that you need to check the signal cable.



Environment

The location and the position of the monitor may influence the quality and other features of the monitor.

If there are any sub woofer speakers near the monitor, unplug and relocate the woofer to another room.

Remove all electronic devices such as radios, fans, clocks and telephones that are within 3 feet (one meter) of the monitor.

Useful Tips

A monitor recreates visual signals received from the computer. Therefore, if there is a problem with the computer or the video card, this can cause the monitor to become blank, have poor coloring, become noisy, and video mode not supported, etc. In this case, first check the source of the problem, and then contact the Service Center or your dealer.

Judging the monitor's working condition

If there is no image on the screen or a "**Not Optimum Mode**", "**Recommended Mode 1680 x 1050 60 Hz**" message comes up, disconnect the cable from the computer while the monitor is still powered on.

If there is a message coming up on the screen or if the screen goes white, this means the monitor is in working condition.

In this case, check the computer for trouble.

Check List



Note

Before calling for assistance, check the information in this section to see if you can remedy any problems yourself. If you do need assistance, please call the phone number on the Information section or contact your dealer.

No images on the screen. I cannot turn on the monitor.

Q: Is the power cord connected properly?

A: Check the power cord connection and supply.

Q: Can you see "**Check Signal Cable**" on the screen?

A: (Connected using the D-sub cable)

Check the signal cable connection.

(Connected using the DVI cable)

If you still see an error message on the screen when the monitor is connected properly, check to see if the monitor status is set to analog.

If you still see an (error) message on the screen when the monitor is connected properly, check to see if the monitor status is set to analog. Press '/SOURCE' button to have the monitor double-check the input signal source.

Q: If the power is on, reboot the computer to see the initial screen (the login screen), which can be seen.

A: If the initial screen (the login screen) appears, boot the computer in the applicable mode (the safe mode for Windows ME/XP/2000) and then change the frequency of the video card.

(Refer to the Preset Timing Modes)

If the initial screen (the login screen) does not appear, contact the Service Center or your dealer.

Q: Can you see "**Not Optimum Mode**", "**Recommended Mode 1680 x 1050 60 Hz**" on the screen?

A: You can see this message when the signal from the video card exceeds the maximum resolution and frequency that the monitor can handle properly.

A: Adjust the maximum resolution and frequency that the monitor can handle properly.

A: If the display exceeds SXGA or 75 Hz, a "Not Optimum Mode", "Recommended Mode 1680 x 1050 60 Hz" message is displayed. If the display exceeds 85 Hz, the display will work properly but the "Not Optimum Mode", "Recommended Mode 1680 x 1050 60 Hz" message appears for one minute and then disappears.

Please change to the recommended mode during this one-minute period.

(The message is displayed again if the system is rebooted.)

Q: There is no image on the screen. Is the power indicator on the monitor blinking at 1 second intervals?

A: The monitor is in PowerSaver mode.

A: Press a key on the keyboard to activate the monitor and restore the image on the screen.

A: If there is still no image, press the /SOURCE' button. Then press any key on the keyboard again to activate the monitor and restore the image on the screen.

Q: Connected using the DVI cable?

A: You may get a blank screen if you boot the system before you connect the DVI cable, or disconnect and then reconnect the DVI cable while the system is running as certain types of graphic cards do not send out video signals. Connect the DVI cable and then reboot the system.

I cannot see the On Screen Display.

Q: Have you locked the On Screen Display (OSD) Menu to prevent changes?

A: Unlock the OSD by pressing the [MENU/ ] button for at least 5 seconds.

The screen shows strange colors or just black and white.

Q: Is the screen displaying only one color as if looking at the screen through a cellophane paper?

A: Check the signal cable connection.

A: Make sure the video card is fully inserted in its slot.

Q: Have the screen colors become strange after running a program or due to a crash between applications?

A: Reboot the computer.

Q: Has the video card been set properly?

A: Set the video card by referring to the video card manual.

The screen suddenly has become unbalanced.

Q: Have you changed the video card or the driver?

A: Adjust screen image position and size using the OSD.

Q: Have you adjusted the resolution or frequency to the monitor?

A: Adjust the resolution and frequency at the video card.
(Refer to the Preset Timing Modes).

Q: The screen can be unbalanced due to the cycle of the video card signals. Readjust Position by referring to the OSD.

The screen is out of focus or OSD cannot be adjusted.

Q: Have you adjusted the resolution or frequency on the monitor?

A: Adjust the resolution and frequency of the video card.
(Refer to the Preset Timing Modes).

LED is blinking but no images on the screen.

Q: Is the frequency properly adjusted when checking the Display Timing on the menu?

A: Adjust the frequency properly by referring to the video card manual and the Preset Timing Modes.
(The maximum frequency per resolution may differ from product to product.)

There are only 16 colors shown on the screen. The screen colors have changed after changing the video card.

Q: Have the Windows colors been set properly?

A: Windows XP :
Set the resolution at the Control Panel → Appearance and Themes → Display → Settings.

A: Windows ME/2000 :
Set the resolution at the Control Panel → Display → Settings.

Q: Has the video card been set properly?

A: Set the video card by referring to the video card manual.

There is a message that reads "Unrecognized monitor, Plug & Play (VESA DDC) monitor found".

Q: Have you installed the monitor driver?

A: Install the monitor driver according to the Monitor Driver.

Q: See the video card manual to see if the Plug & Play (VESA DDC) function can be supported.

A: Install the monitor driver according to the Monitor Driver.

USB Monitor Check List

There is no image on the screen. I cannot turn on the monitor.

Q: If you quickly and repeatedly turn your USB monitor off and on, it may not work normally.

A: Your USB monitor is recognized as a general USB device on your PC. Therefore, please refer to the troubleshooting information for USB devices by visiting Microsoft's customer support site.

Check the signal cable connection.

(www.microsoft.com - Support)

1. Right-click the 'My Computer' and click on'Properties'.
2. The Device Manager is displayed
3. From the "Action" menu, click "Scan for hardware changes". Reboot your PC.

The screen of the USB monitor freezes.

Q: Check the 'Hardware acceleration' setting for your USB monitor in the 'Display Properties' window.

A: Set the 'Hardware acceleration' value to 'Full'.

For more information on how to configure the settings, click [here](#).

1. Right-click the 'My Computer' and click on'Properties'.
2. The "Display Properties" window appears. Select the "Settings" tab and click on "Advanced".
3. If the "Properties" window for your monitor is displayed, select the "Troubleshoot" tab. Move the "Hardware acceleration" slide to "Full"

My USB monitor is connected but the screen is blank.

Q: Does the Auto Installation program run when your USB monitor is connected?

A: Check your user account in the Control Panel.

Check your user account in the Control Panel.

1. Click Start - Control Panel - User Accounts - Change an account ? Admin: Computer administrator - Change my account type. In the displayed window, Computer administrator (Power User or higher) must be selected. - For Windows XP computers.
2. Set your account type as directed above. Then turn the Power button at the front of your USB monitor off and on or reconnect the USB cable connected to the monitor. If the problem persists, install the "USB Monitor Installation Driver" from the provided CD. For more information, refer to the Manual Installation section.
3. When the installation is finished, reboot your PC.

My computer is on and the LED is blinking. However, only a blank screen is displayed on the monitor.

Q: Check whether the USB cable is connected correctly.

A: Connect the USB cable again.

Q: Check whether your computer is in hibernation mode (The monitor turns off).

A: Move your mouse or press any key to display the screen again.

Check the following items if there is trouble with the monitor.

Check if the power cord and the video cables are properly connected to the computer.

Check if the computer beeps more than 3 times when booting.

(If it does, request an a service for the main board of the computer.)

If you installed a new video card or if you assembled the PC, check if the installed the adapter (video) driver and the monitor driver.

Check if the scanning ratio of the video screen is set to between 56 Hz ~ 75 Hz.

(Do not exceed 75 Hz when using the maximum resolution.)

If you have problems in installing the adapter (video) driver, boot the computer in Safe Mode, remove the Display Adapter in the "Control Panel → System → Device Administrator" and then reboot the computer to reinstall the adapter (video) driver.



Note

If problems repeatedly occur, contact an authorized service center.

Q & A

Q: How can I change the frequency?

A: The frequency can be changed by reconfiguring the video card.

A: Note that video card support can vary, depending on the version of the driver used. (Refer to the computer or the video card manual for details.)

Q: How can I adjusts the resolution?

A: Windows XP:

Set the resolution in the Control Panel → Appearance and Themes → Display → Settings.

A: Windows ME/2000:

Set the resolution in the Control Panel → Display → Settings.

* Contact the video card manufacturer for details.

Q: How can I set the Power Saving function?

A: Windows XP:

Set the resolution in the Control Panel → Appearance and Themes → Display → Screen Saver.

Set the function in the BIOS-SETUP of the computer. (Refer to the Windows / Computer Manual).

A: Windows ME/2000:

Set the resolution at the Control Panel → Display → Screen Saver.

Set the function in the BIOS-SETUP of the computer. (Refer to the Windows / Computer Manual).

Q: How can I clean the outer case/LCD Panel?

A: Disconnect the power cord and then clean the monitor with a soft cloth, using either a cleaning solution or plain water.

Do not leave any detergent or scratches on the case. Do not let any water enter the monitor.

Q: How can I remove the “USB Monitor Installation Program” completely?

A: 1. Click ‘Add/Remove Programs’ in the ‘Control Panel’. A list of ‘currently installed programs’ is displayed.

2. Select ‘Samsung UbiSync Monitor’ from the list and click ‘Remove’.

Q: There is no response when I right-click “Samsung UbiSync (P:) (USB Monitor)” in the “My Computer” window and click “Eject” in the displayed menu.

A: Though your USB monitor is recognized as a drive by your PC, it has been designed so that the context menu usually displayed when right-clicking on the “My Computer” window does not work.

Q: The screen size of the USB monitor is larger than the actual monitor size.

A: If the primary monitor has a high resolution, screens are expanded beyond the recommended resolution in Clone mode (USB monitor). (Recommended resolution: 1680x1050)

Q: The screen size of the USB monitor is smaller than the actual monitor size. The screen is centered on the monitor.

A: If the primary monitor has a high resolution, screens are smaller than the recommended resolution in Clone mode (USB monitor). (Recommended resolution: 1680x1050)

Q: I disconnected or turned off my USB monitor but my PC still displays the old monitor information in the Display Properties window.

A: The deactivated USB monitors are such that the power to them is turned off or their USB cables are disconnected. To remove this information, you have to remove the ‘Samsung UbiSync Monitor’ program from ‘Add/Remove Programs’ in the ‘Control Panel’.

If you remove the program you cannot use all the connected USB monitors. If you want to use the USB monitor again, you have to setup the installation program again.

Q: Icons and photos are broken or jagged in Clone mode (USB monitor).

A: This occurs because Windows does not send the screen updating information to Clone mode if Extended mode is active on a single PC.

We recommend using the monitor in Extend mode.

Q: How I can clone or extend screen mode?

A: Open the “Display Properties” window and select the “Settings” tab,

- For more information on how to configure the settings, click [here](#).



Note

Before calling for assistance, check the information in this section to see if you can remedy any problems yourself. If you do need assistance, please call the phone number on the Information section or contact your dealer.